

Preparation Date 2021/02/10

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	Miracle Mix Alloy
Product Code	201214-7
Name of Supplier	GC Corporation
Address	76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan, Postal code 174-8585
Company Contact	Quality Assurance department
Phone Number	81-3-3965-1388
Fax Number	81-3-3965-1276
Restriction on Use	Prohibit use by anyone other than qualified dentistry. Prohibit use for purposes other than those written in this product's IFU. Surgeons / patients who have a rash, dermatitis, or other hypersensitivity to this product should discontinue use and seek medical attention immediately.

Section 2 – HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Health Hazards	Serious eye damage/eye irritation Category 2B Skin sensitization Category 1 Specific target organ toxicity (single exposure) Category 1 (respiratory system digestive organs) Specific target organ toxicity (repeated exposure) Category 1 (eye respiratory apparatus lung) Other hazards than mentioned above are Not classified or Classification not possible.
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GHS Label Elements

Pictograms



Signal Word	Danger
Hazard Statements	H317 May cause an allergic skin reaction H320 Causes eye irritation H370 Causes damage to respiratory system, digestive organs H372 Causes damage to eye, respiratory apparatus, lung through prolonged or repeated exposure

Precautionary Statements

Prevention	Do not breathe dust/fume/gas/mist/vapours/spray.(P260) Avoid breathing dust/fume/gas/mist/vapours/spray.(P261) Wash hand thoroughly after handling.(P264) Wash eye thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Contaminated work clothing should not be allowed out of the workplace.(P272)
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Response
 Wear protective gloves/protective clothing/eye protection/face protection.(P280)
 IF ON SKIN: Wash with plenty of soap and water.(P302+P352)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)
 IF exposed or concerned: Call a doctor.(P308+P311)

Storage
 Disposal
 Get medical advice and attention if you feel unwell.(P314)
 Specific treatment.(P321)
 If skin irritation or rash occurs: Get medical advice/attention.(P333+P313)
 If eye irritation persists: Get medical advice/attention.(P337+P313)
 Take off contaminated clothing and wash it before reuse.(P362+P364)
 Store locked up.(P405)
 Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCs No./ISHL No.		CAS RN
			ENCs No.	ISHL No.	
Silver	Confidential	Confidential	Confidential	Confidential	Confidential
Tin	Confidential	Confidential	Confidential	Confidential	Confidential
Copper	Confidential	Confidential	Confidential	Confidential	Confidential

Section 4 – FIRST AID MEASURES

Inhalation

Call a doctor if you feel unwell.

IF exposed or concerned: Call a doctor.

Skin Contact

IF ON SKIN: Wash with plenty of soap and water.

Take of contaminated clothing and wash before re-use.

If skin irritation or rash occurs, get medical advice and attention.

Specific treatment.

IF exposed or concerned: Call a doctor.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion

IF exposed or concerned: Call a doctor.

Rinse mouth.

IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Call a doctor.

Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire. When dust occurs, use dry sand.
Unsuitable Extinguishing Media	No information available
Specific Hazards in Case of Fire	Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
Specific Fire Fighting	Fight fire from upwind position if possible Keep away from sources of ignition and use appropriate extinguishing media. Prohibit unauthorized staff from entering the area around the fire. Keep unnecessary people away.
Special Protective Equipment and Precautions for Fire	Use goggles in combination with dust mask, and another protections as appropriate to situation.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use goggles in combination with dust mask, and another protections as appropriate to situation.
Environmental Precautions	Large spills :Evacuate area. Ensure adequate ventilation.
Methods and Equipment for Containment and Cleaning Up	Do not discharge into the drains, surface waters or ground water directly. in case of fine powder Sweep or vacuum spills to drums or containers. Prevent dispersion of dust. in case of fine powder Use explosion–proof electrical equipment and prevent from static electrocity.
Prevention Measures for Secondary Accidents	Keep away from sources of ignition and prepare extinguishing media. Risk of slipping. Spilled material forms slippery floor. Do not recklessly walk on the spillage.

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Please comply with this section and the contents of this product's IFU. Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION". Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapours/spray.

Storage	Prevents Handling of Incompatible Substances or Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up.
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Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

	Exposure Limits (ACGIH)
Silver	TWA 0.1 mg/m ³ , STEL – (Metal, dust and fume)
Tin	TWA 2 mg/m ³ (I), STEL –
Copper	TWA 0.2 mg/m ³ , STEL – (Fume, as Cu);TWA 1 mg/m ³ , STEL – (Dusts and mists, as Cu)

Engineering Controls		Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electrocity.
Personal Protective Equipment	Respiratory Protection Hand Protection Eye/Face Protection Skin and Body Protection	If necessary, wear respiratory protection. Wear protective gloves. If necessary,wear protective eye protection. If necessary,wear protective clothing.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State		solid
Form		solid (powder)
Colour		Grey
Odour		Odorless
Melting Point/Freezing Point		No data available
Boiling Point or Initial Boiling Point and Boiling Ranges		No data available
Flammability		No data available
Lower and Upper Explosion Limit / Flammability Limit	Lower Limit	No data available
	Upper Limit	No data available
Flash Point		No data available
Auto-Ignition Temperature		Product is not selfigniting.
Decomposition Temperature		No data available
pH		Not applicable
Kinematic Viscosity		No data available
Solubility		Insoluble in water

Partition Coefficient : n-Octanol/Water	No data available
Vapour Pressure	Not applicable
Density and/or Relative Density	No data available
Relative Gas Density	No data available
Particle Characteristics	No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity	No information available
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reaction	No information available
Conditions to Avoid	Spark Fire Heat
Incompatible Substances or Mixtures	Halide Sulfuric compound Acid chloride Strong base Strong oxidant Acid
Hazardous Decomposition Products	Metallic oxide

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral	Classification not possible
	Dermal	Classification not possible
	Inhalation	(gas) Does not fall under gas based on GHS definitions. (vapour) Unable to classify (dust and mist) Unable to classify
Skin Corrosion/Irritation		Classification not possible
Serious Eye Damage/Eye Irritation		Category 2B
Respiratory Sensitization		Unable to classify
Skin Sensitization		Category 1
Germ Cell Mutagenicity		Unable to classify
Carcinogenicity		Unable to classify
Reproductive Toxicity		(Reproductive toxicity) Unable to classify
		(Reproductive toxicity, effects on or via lactation)
Specific Target Organ Toxicity (Single Exposure)		Unable to classify
		Category 1(respiratory system)

	Category 1(digestive organs)
Specific Target Organ Toxicity (Repeated Exposure)	Category 1(eye)
	Category 1(respiratory apparatus)
	Category 1(lung)
Aspiration Hazard	Classification not possible
Section 12 – ECOLOGICAL INFORMATION	
Hazardous to the Aquatic Environment, Short-Term (Acute)	Classification not possible
Hazardous to the Aquatic Environment, Long-Term (Chronic)	Classification not possible
Ecotoxicity	No data available
Persistence	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Hazardous to the Ozone Layer	Unable to classify
Section 13 – DISPOSAL CONSIDERATIONS	
Residual Waste	Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes. Dispose of waste in accordance with local, state and federal regulations.
Contaminated Container and Packaging	Passed to a licensed waste contractor. In case of disposal of empty containers, remove the content thoroughly.
Section 14 – TRANSPORT INFORMATION	
International Regulations	Regulatory Information by Sea
	UN No. 3077
	Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Class 9
	Packing Group III
	Marine Pollutant Applicable
	Liquid Substance Not applicable
	Transported in Bulk
	According to MARPOL 73/78, Annex II, the IBC Code
	Regulatory Information by Air
	UN No. 3077
	Conform to the provisions of ICAO/IATA.

Regulations in Japan	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Class	9
	Packing Group	III
	Regulatory Information by Road	Not regulated
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
	UN No.	3077
	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	Class	9
	Packing Group	III
	Marine Pollutant	Applicable
Liquid Substance Transported in Bulk	Not applicable	
According to MARPOL 73/78, Annex II, the IBC Code		
Regulatory Information by Air	Conform to the provisions of the Civil Aeronautics Law.	
UN No.	3077	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Class	9	
Packing Group	III	
Emergency Response Guide Number	171	

Section 15 – REGULATORY INFORMATION

It is recommended to consult the local regulations of the state/region to determine the identification as hazardous material.

Section 16 – OTHER INFORMATION

Information Contact	Described in item 1
Other Property	The information herein is given in good faith, but no warranty expressed or implied, is made.